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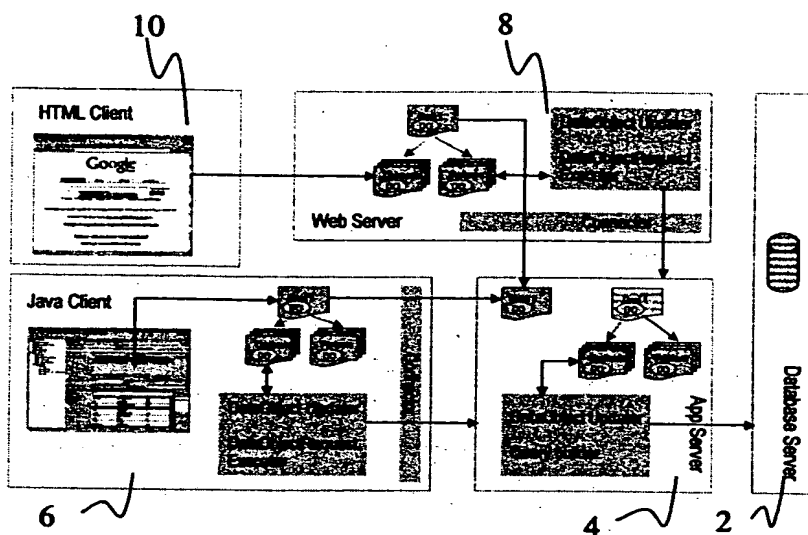


Fig. 1

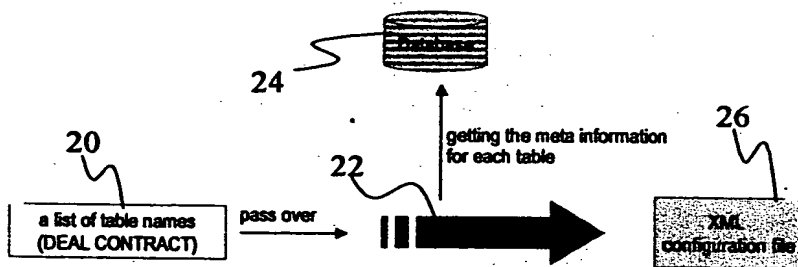


Fig. 2

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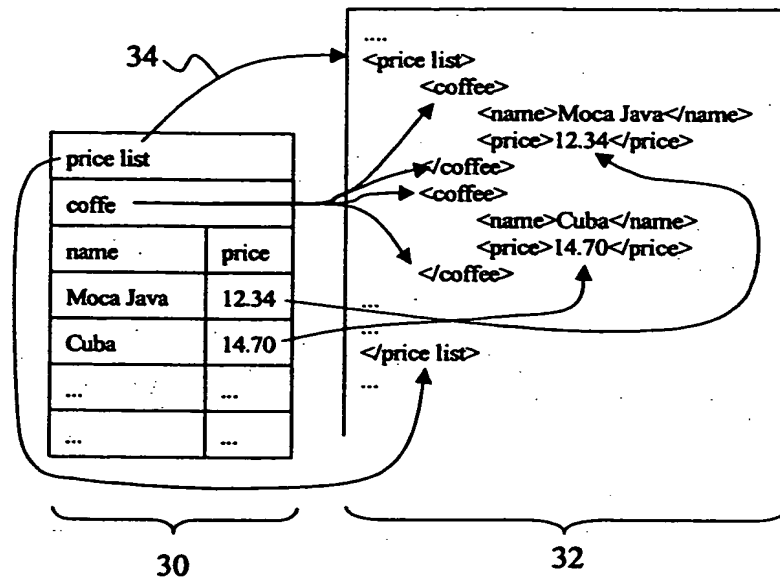


Fig. 3

```

<entity
  name="DEAL"
  label="Deal"
  comment="This is the deal"
  40  boclclass="persistence.client.bos.Deal"
      doclclass="persistence.dos.DealDataObject"
      condition=""
      conditionerror=""
      schema="DEMO"
      tablename="DEAL"
      edittablename="DEAL"
      primarykeyname="DEALID"
      primarykeystatement="SELECT PERSISTENCY_SEQ.NEXTVAL FROM D
      uniquekeys="DEALID"

```

Fig. 4

```

<attributes>
  <attribute
    name="DEALID"
    label="Deal id"
    50  classname="java.lang.Integer"
        format="#,##0"
        maxsize="10"
        decimaldigit="0"
        componenttype="textfield"
  />
  <attribute
    name="InceptionDate"
    label="Start"
    classname="java.util.Date"

```

Fig. 5

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```

<relations>
  <relation name="dealcontract" entity="CONTRACT">
    <foreignkeys>
      <foreignkey
        attribute="DEALID"
        parentattribute="DEALID"/>
    </foreignkeys>
  </relation>
  <relation name="dealpartner" entity="PARTNER">
    <foreignkeys>
      <foreignkey
        attribute="DEALID"
        parentattribute="DEALID"/>
    </foreignkeys>
  </relation>
</relations>

```

Fig. 6

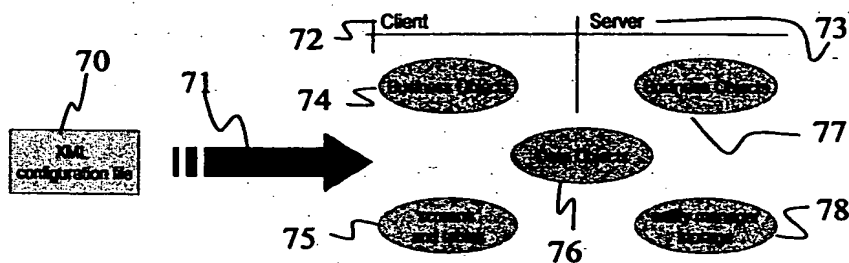


Fig. 7

```

public class DealPanel extends BaseDataPanel
{
    protected void preprocessView() throws GFWBaseException {
        GFWTextField dealId = GFWGuiFactory.getTextField(Deal.DEAL);
        GFWDate initiationDate = GFWGuiFactory.getDate(Deal.INITIA);

        setBinder(Deal.ENTITY.getName());

        GFWGridBagPanel mainPan = new GFWGridBagPanel();
        addCenter(mainPan);

        mainPan.add(GFWGuiFactory.getLabel(Deal.DEALID), dealId);
        mainPan.add(GFWGuiFactory.getLabel(Deal.INITIATIONDATE), i
    }
}

```

Fig. 8

```

public class ContractTablePanel extends GFWTablePanel implements C
{
    public ArrayList createTableColumnDescriptors() {
        ArrayList descriptors = new ArrayList();

        GFWTableColumnDescriptor columnDescriptor;
        columnDescriptor = new GFWTableColumnDescriptor(Contract.I);
        columnDescriptor.setEditor(new GFWTableCellComponentEditor);
        columnDescriptor.setSortable(false);
        columnDescriptor.setEditable(true);
        columnDescriptor.setResizable(false);
        columnDescriptor.setPreferredWidth(130); // setMinWidth
        descriptors.add(columnDescriptor);
        return descriptors;
    }
}

```

Fig. 9

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```

public class BaseDeal extends BaseBusinessObject
{
    private DealDataObject mDataObject;

    public void setDealId(Integer value) throws GFWBaseException {
        mDataObject.storeOldValues();

        Integer oldValue = mDataObject.mDealId;
        mDataObject.mDealId = value;
        mDataObject.mDealId = (Integer)validateValue(mDataObject.m
    }
    public Integer getDealId() {
        return mDataObject.mDealId;
    }
}

```

Fig. 10

```

public class DealDataObject implements Serializable, Cloneable, Da
{
    HashMap mDataObjectCollectionMap = new HashMap();

    public Integer mDealId;
    public Integer mOldDealId;

    public boolean isModified()
    {
        if (mDealId == null)
        {
            if (mOldDealId != null) return true;
        }
    }
}

```

Fig. 11

```

public class ServerContract extends BaseBusinessObject
{
    public static void beforeInsert(ContractDataObject dataObject)
    throws GFWBaseException
    { }

    public static void afterInsert(ContractDataObject dataObject)
    throws GFWBaseException
    { }

    public static void beforeUpdate(ContractDataObject dataObject)
    throws GFWBaseException
    { }
}

```

Fig. 12

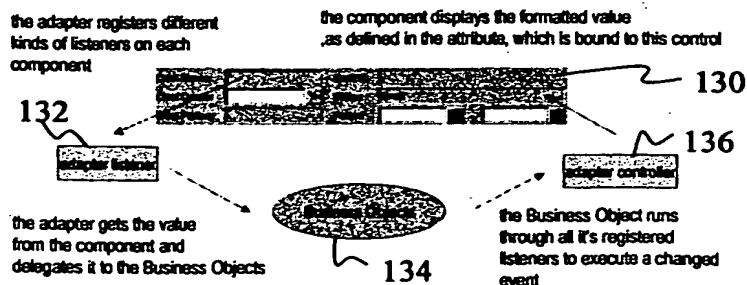


Fig. 13

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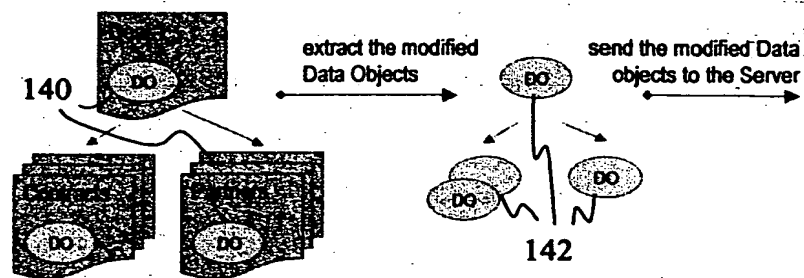


Fig. 14

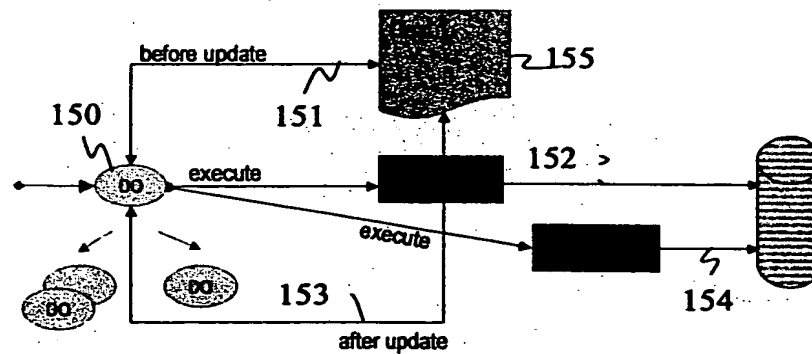


Fig. 15

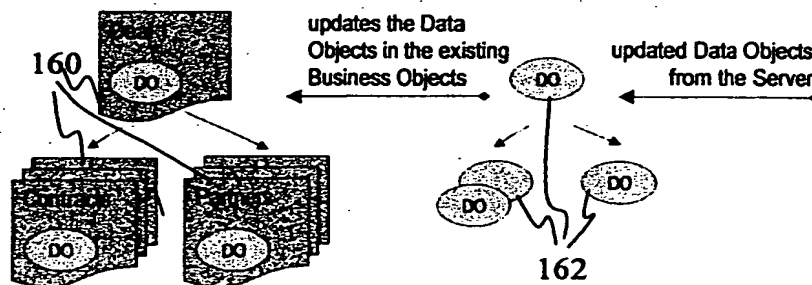


Fig. 16

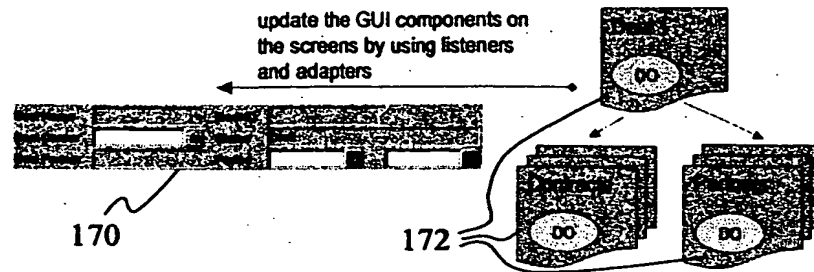


Fig. 17

Properties for entities

Name	Description
Name	The entity name
Label	The label for this entity
Comment	Comments for this entity
ClassName	Type class name
Condition	Interpreted condition language
ConditionError	Condition error message
BusinessObjectClassName	The Business Object class name
DataObjectClassName	The Data Object class name
Access	Read, writer, readWrite, none
Attributes	A list of attributes

Fig. 18

Database relevant properties for entities

Name	Description
Schema	The name of the database schema
TableName	The database table name (read)
EditTableName	The database table name (write)
PrimaryKeyName	The primary key
PrimaryKeyStatement	Statement to generate the primary key
SearchStmt	User defined search statement
SelectStmt	User defined select statement
UpdateStmt	User defined update statement
DeleteStmt	User defined delete statement
InsertStmt	User defined insert statement

Fig. 19

Properties for attributes

Name	Description
Name	The attribute name from the database
Label	The label for this attribute
Comment	Comments for this attribute
ClassName	Type class name
Condition	Interpreted condition language
ConditionError	Condition error message
Format	Java Message format
Type	Email, wwwLink etc
Access	Read, writer, readWrite, none

Fig. 20

GUI relevant properties for attributes

Name	Description
Type	Textfield, Label, Checkbox, Codetable etc.
Columns	Number of columns
Rows	Number of rows
CodeTableName	Name of the codeta

Fig. 21

Relations between entities

Name	Description
Name	Name for this relation
EntityName	The name to a related Entity
ForeignKeys	The foreign keys to join the entities

Fig. 22

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